

(19) World Intellectual Property
Organization
International Bureau



547 840

(43) International Publication Date
16 September 2004 (16.09.2004)

PCT

(10) International Publication Number
WO 2004/078729 A1

(51) International Patent Classification⁷: **C07D 213/79**,
213/80, 405/12, 409/12, 401/12, 413/12, 417/12, 401/06,
401/08, 417/06, 417/08, 413/06, 413/08

(74) Common Representative: **SYNGENTA PARTICIPATIONS AG**; Intellectual Property, P.O. Box, 4002 Basel (CH).

(21) International Application Number:
PCT/EP2004/002291

(22) International Filing Date: 5 March 2004 (05.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
373/03 7 March 2003 (07.03.2003) CH

(71) Applicant (for all designated States except US): **SYNGENTA PARTICIPATIONS AG** [CH/CH]; Schwarzwaldallee 215, CH-4058_Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JACKSON, David, Anthony** [GB/CH]; Syngenta Corp Protection Muenchwilten AG, Breitenloh 5, CH-Muenchwilten (CH). **BOWDEN, Martin, Charles** [GB/GB]; Syngenta Huddersfield Works, Leeds Road, Huddersfield, West Yorkshire, HD2 1FF (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

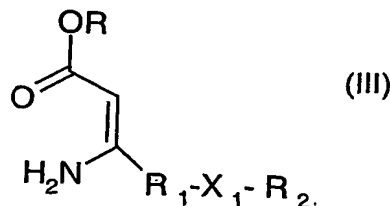
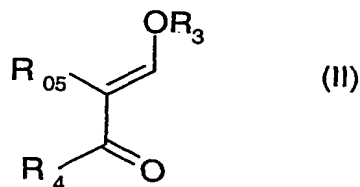
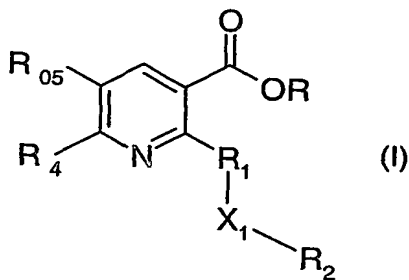
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: PROCESS FOR THE PRODUCTION OF SUBSTITUTED NICOTINIC ACID ESTERS



(57) Abstract: The present invention relates to a process for the preparation of compounds of formula (I) wherein the substituents are as defined in claim 1, by reaction of a compound of formula (II) wherein R₃ is C₁-C₈alkyl or C₃-C₆cycloalkyl and R₄ and R₀₅ are as defined for formula (I), with a compound of formula (III) wherein R, R₁, R₂ and X₁, are as defined for formula (I) in claim 1, in an inert solvent in the presence of a proton source.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.